forming a second electrode layer on the n-layer,

wherein the i-layer is formed by a plasma CVD method employing plasma discharge caused by application of a pulse-modulated high frequency voltage having a pulse ON time of not longer than 50 µsec and a duty ratio of not higher than 50% to improve a photo-electric conversion efficiency of the solar cell.

2. (Unamended) A solar cell production method as set forth in claim 1, wherein the pulse ON time is not longer than 10µsec and the duty ratio is not higher than 20%.

Please add the following new claims:

6. (New) A method of making a solar cell, the method comprising:

forming a first electrode layer so as to be supported by a substrate,

forming a p-layer, an i-layer and an n-layer comprising amorphous silicon over the first electrode layer, and

thereafter forming a second electrode layer,

wherein the i-layer is formed by a plasma CVD method comprising employing plasma discharge caused by application of a pulse-modulated high frequency voltage having a pulse ON time of not longer than 50µsec to improve a photo-electric conversion efficiency of the solar cell.

- 7. (New) The method of claim 6, wherein the pulse ON time is not longer than 10µsec, and a duty ratio of the pulse-modulated high frequency voltage is not higher than 20%.
- 8. (New) The method of claim 6, wherein a duty ratio of the pulse-modulated high frequency voltage is not higher than 50%.

<u>REMARKS</u>

This is in response to the Office Action dated November 4, 2002. New claims 6-8 have been added. Thus, claims 1-2 and 6-8 are now pending. Attached hereto is a marked-up version of the changes made to the claim(s) by the current amendment. The attached page(s) is captioned "Version With Markings To Show Changes Made."

Applicant appreciates the courtesy extended by the Examiner during the personal interview held at the USPTO on January 31, 2003. During the interview, the Examiner agreed that claim 1 defines over the art of record.

For purposes of example, and without limitation, certain example embodiments of this invention relate to a method of making a solar cell including a p-i-n layer stack between at least pair of electrodes. For example, see Fig. 3 of the instant application which illustrates a-Si p-layer 23, a-Si i-layer 24, and a-Si n-layer 25 on substrate 21, and sandwiched between electrodes 22 and 26, 27. The i-layer is formed using a particular plasma CVD technique using application of a pulse-modulated high frequency voltage.